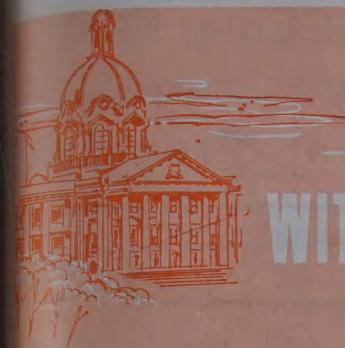


LIBRARY,
PROVINCIAL GOVERNMENT,
LEGISLATIVE BUILDING,
EDMONTON, ALBERTA

NOV-8 1968



WITHIN OUR BORDERS



AN ALBERTA
GOVERNMENT
PUBLICATION

- Guiding as Business
- Cancer Hospital Opens
- Training the Retarded
- Greenhouses Studied

NOVEMBER, 1968

1968's Master Farm Family

Arthur Arrison's farm career began in the 1930's when he, his mother and his step-father purchased ten sections of land near Bassano from the C.P.R. for \$250. This was the first step in development of a successful farming enterprise which this year won the Alberta Master Farm Family Award for 1968.

The Arrison family, Arthur, wife Helen, daughter Gail and son Wayne, has achieved a harmonious balance among the four factors that bring success in farming and farm living: a spacious comfortable home and neat farmstead, the use of advanced farming practices as a matter of course, good business management, and full participation in family and community life.

The family owns 5,726 acres and rents another 1,280. Of the total, 4,200 acres are cultivated, usually half in crop and half in fallow. Although grain is the main source of income, the Arrison's beef herd of 122 cows and five bulls produced 120 calves this year.

The success the Arrisons have made of their farming operation is partly due to careful, detailed and recorded planning. A farm budget book contains monthly records of farm operations, color-keyed maps of crop areas and the returns from each enterprise, allowing analysis of its contribution to the whole.

Family activities in community affairs bring great credit to the Arrisons. Father, daughter and son all participated in 4-H. Art Arrison was a club leader for five years, Gail and Wayne were members of the local beef club for eight. Gail has a record of triumphs, having shown three champions and a reserve champion at the Bassano Beef Club Competitions.

Together, the Arrisons have held over 100 offices and awards in local activities. Mr. Arrison's record includes presidencies of the local board of trade, the farmers' union local, and the local fire protective association, as well as 13 years as Wheat Pool delegate. Mrs. Arrison has been a member of the Order of the Eastern Star and was active in Red Cross work. Wayne was president of the students' union in high school, a member of the Eastern Irrigation District teen council and president of the Agricultural Economics Club in university. Gail (now Mrs. A. Beauregard) was secretary of the 4-H Club. Now attending Mount



The Arthur Arrison family of Bassano. Seated, left to right: Arthur Arrison, daughter Gail and wife Helen. Standing, son Wayne.

Royal College in Calgary, she still maintains a strong interest in farm and family affairs.

All of these qualities contribute to the family strength and unity which have been major factors in the selection of the Arrison family of Bassano as the 1968 Master Farm Family in Alberta.

Extensive use of trees around the attractive home make the Arrison farmstead a distinctive landmark in a virtually treeless area.





Superficial x-ray therapy is provided by this machine.

THE OPENING OF THE Dr. W. W. Cross Cancer Clinic Hospital in Edmonton marks a significant and major step forward in the Alberta Department of Health's continuing campaign in cancer diagnostic and treatment efforts. The \$8,500,000 hospital on University Avenue is the outgrowth of the initial research and treatment centre established in 1940, in the maternity annex of the University Hospital. The new 78-bed centre, occupied on July 1, 1968, is particularly adapted to the provision of diagnostic and therapeutic radiology services and diagnostic isotope facilities.

Named the Dr. W. W. Cross Cancer Institute in recognition of former Health Minister, the new structure consists of a five-storey building intersected at 90 degrees by a long one-storey wing comprising 190,000 square feet and providing for the future addition of two floors and an additional 82 beds.

In planning the building particular care was taken to locate the various departments in a logical and efficient arrangement with convenient means of communication for patients and staff. The twenty examining rooms of the out-patient department are grouped around two central work areas in such a way that patient and staff traffic is separated. Similarly, the diagnostic X-ray rooms are laid out around a central work core making the department one of the most efficient of its kind. All treatment machines are housed on the basement floor where underground location aids in the protection of staff and patients from radiation hazards. The treatment centre includes an 8 MEV Linear Accelerator, one of only two such machines in Canada. This and other specialized treatment machines provide extensive out-patient, diagnostic and therapeutic radiology and isotope facilities. Surgical facilities are available for endoscopy examination, radium insert and access surgery associated with sources of radiation utilizing the most modern equipment presently available. In addition, many treatment accessories, even special apparatus for research work, will be fabricated under the supervision of physicists in the Medical Physics department.

Efficiency of operation will be assisted by such features as dumbwaiters, escalators, elevators, a pneumatic tube system for dispatching messages, records and drugs, and a versatile intercom system.

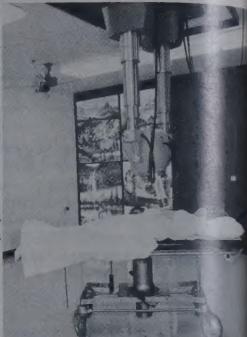
Additional support facilities include a cafeteria, coffee shop, auditorium, and chapel.

Modern research facilities are provided in both the Dr. W. W. Cross Cancer Institute and the Cancer Clinic in Calgary. From these two centres are served peripheral clinics at Grande Prairie, Peace River, Lethbridge and Medicine Hat. The Provincial Cancer Hospitals Board was created to administer and promote the development of these clinics and became operational on January 1, 1968. This unique departure will allow greater flexibility and developmental strength in the area of cancer. The administration facilities for the province are located on the second floor of the Dr. W. W. Cross Cancer Institute.

Cancer Clinic Offers Advanced Diagnostic Treatment Programs



A diagnostic radiologist dictates an interpretive report of a chest x-ray.



A caesium therapy unit. Note the monitoring unit on the ceiling, and the highly decorative pictorial wall section.



The haematology section of the central laboratory is a highly important area for diagnostic decisions.



Imagine-intensification fluoroscopy is a modern facility of the hospital. This unit is equipped with a tv monitor, and with cine fluorography and videotape facilities.



Accommodation is bright and cheerful. The twin-bedded room has colorful spreads and gay curtains.

Train Retarded Adults For Work in Industry

THE ALBERTA Industrial Research and Training Centre for the Retarded, has opened its doors to some 60 students, and before the end of the year, an additional 100 students will be enrolled.

The newly constructed Centre located in Edmonton, was completed at a cost of \$1.1 million. Capital costs of construction were shared by provincial and federal governments, with financing administered through the Alberta Division of Vocational Education.

A Diversified Industry Complex will be added to the Research and Training sections within the next two years. This second phase of development will pave the way for a large number of local firms to sub-let production contracts to the Centre, and thus make the institution self sustaining within three or four years. In the meantime, the Alberta Department of Public Welfare will assist in some of the operating expenses. These costs will be shared on a 50-50 basis under the Federal-Provincial Vocational Rehabilitation of Disabled Persons Agreement.

Initially, the Centre will admit residents of Alberta who are 16 years of age and over and who are classified as non-convulsive, functional retardates. Students will be trained for skilled occupations to produce competitive products and services. Some of the areas in which experimental training will be carried on are electronic component and unit assembly, plastic injection and extrusion and automatic offset press operations.

The Alberta Industrial Research and Training Centre is the first school of its kind in North America. It is equipped with training labs for offset printing, electronics work, optical lens grinding and denture making. There are also special research labs designed to provide a variety of industrial process situations. The reaction of the student to each situation will be studied in order for the research team to determine what the student can do, how he does it and what the limit of his capability is. At present the research labs are equipped with machinery for photography, plastics processes, metal and wood-work. The school will begin operations with \$300,000 worth of highly automated equipment.

Students entering the Alberta Industrial Research and Training Centre must receive pre-instruction at schools specializing in academics and sensory training for the mentally retarded. Student flow is then directed to the research labs at the Centre for the purpose of skill identification and skill evaluation. The research labs are actually a springboard to the various training programs at the school. The end result will be production of various products and services by retarded persons at the Centre's Diversified Industries Complex. It is at this stage of operations, that the retarded will be given employment in the production of goods for local industry.

The training facet of the project is envisioned as being primarily experimental for the first three years. Resulting research findings will then lead to development of a permanent industrial training program for the mentally retarded.

Of the 60 students already enrolled at the Centre, 30 have been attending pilot training courses in special laboratories at the University of Alberta and the Northern Alberta Institute of Technology. These students have received preliminary training in electronic component and unit assembly, plastic injection molding, automatic offset press operation and computer assembly and programming.

A staff of some 30 persons, including instructors, analysts, technicians, consultants and office personnel have been hired to work at the school. The Centre, in filling positions for its administration area, is giving preference to the hiring of physically handicapped persons. ●

Will Study Dairy Cattle Nutrition In Advanced New Research Center

Fast, Expert Work Erects Vital Bridge

ONE OF THE most notable among the recent additions by the Bridge Branch of the Department of Highways to Alberta's inventory of 10,000 bridges is the \$450,000 crossing of the Chinchaga River on the resources road from High Level westward to the Rainbow field. The 500-foot-long bridge is part of the Northern Alberta Development construction program that sees an investment of \$1.4 million in the Rainbow road alone this year.

One of the major obstacles to getting the road through was the construction of the bridge over the Chinchaga. It was built early this year in record time by experienced Department of Highways bridge construction crews. Accepted construction practice in the muskeg country of northwestern Alberta calls for equipment and men to move in after freeze-up, when machines can work without bogging down. In the case of the Chinchaga Bridge construction the freeze-up, which normally can be counted on to arrive in mid-November, did not set in until shortly before Christmas.

Thus, it was late December before bridge crews were able to move into the area. About thirty men were maintained on the job throughout the construction period in the sub-zero temperatures that followed. By early March, less than three months after their arrival, the men were out of the area again, leaving behind them two 250-foot steel spans resting firmly on concrete piers and abutments and spanning the river 35 feet above water level. ●

A NEW DAIRY CATTLE Research Center is being built on University of Alberta farm property in Edmonton. The building, together with milking and feeding facilities, will represent a total cost of \$215,000.

The Center is designed primarily for research into the nutrition of dairy cattle, and will include metabolism studies, digestibility and feeding trials for cows and calves and replacement stock, and the feeding of steers for beef production.

Research will be conducted under the University of Alberta Faculty of Agriculture. Results of the various studies undertaken at the Cattle Research Center will be made available to the Alberta Department of Agriculture in their extension program and to beef and dairy cattle producers in the province. The first project planned for the new center will be a study on the use of urea as a protein supplement in various types of grain rations for milk cows.

A highlight of the new Cattle Research Center will be a controlled individual feeding program for cattle. Such a program of feeding is necessary for accurate research, and also allows for different types of projects to be carried on simultaneously. The University farm operates with a herd of 45 head of dairy cattle with calves at foot, and these animals will all be included in a diversified program of nutritional research.

The University of Alberta Dairy Cattle Research Center is slated for completion before next spring. The milking and feeding facilities will feature a milking parlor with automated milking equipment, an area for milk and feed storage, and equipment to facilitate the individual feeding of cattle. ●

Greenhouse Efficiency Is Studied While Tomato Varieties Evaluated



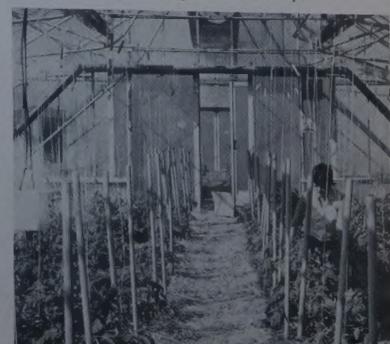
TWENTY-SIX VARIETIES of tomatoes and six types of covering for the greenhouses in which they are grown are all being tested for efficiency of productivity at the Alberta Department of Agriculture Horticulture Station at Brooks.

The experiment is a pilot project requested by greenhouse operators of southern Alberta to establish the most efficient and economical covering material for the structures. The six greenhouses are all of exactly the same basic construction, built to specifications developed by personnel of the Horticultural Station. The only difference in them is their covering. Lapped glass, butt glass, fibreglass, rigid plastic and polyethylene are all being utilized in the experi-

ment. The amount of light and heat admitted by the various covers is measured in terms of energy by a calorimeter. At the same time, outside energy is measured to provide a control for comparison of efficiency.

The design of the Brooks greenhouses is very economical, with an all-pipe framework. The die for the structure is available from the Horticulture Station and it is expected that plans for the construction will be available shortly.

Inside the houses, twenty-six tomato varieties are being grown and screened to determine the type most suitable for greenhouse production in this area. A further step in the experiment will take place shortly with the installation of automatic watering and liquid fertilizer systems. ●



Change in Hunting Regulations Opens Up Business of Guiding For Alberta Resident Woodsmen

A CHANGE IN regulations for moose hunting in northern Alberta has developed a whole new industry in the area, that of guiding.

Four hundred residents trained and qualified last year to take non-resident hunters, most of them from the United States, out after moose. This season, another 800 qualified and some of them are booked right through from the start of the season on September 2 until it ends on December 21.

Last year, for the first time, a special licence was made available for non-resident moose hunters, provided they hired a local guide.

Developing a guide industry was one of the two aims of the change in regulations. The other was to harvest more moose in the areas where they are most densely populated, away from the travelled roads.

Fish and Wildlife Division Biologists say that at least 25,000 head of moose can be harvested in Big Game Zone One each year. The total moose harvest for all zones in the province in 1967 was only about 15,000.

Last year, about 10,000 U.S. hunters came to Alberta to hunt moose, spending an estimated \$1.8 million in the province while doing so. About 3,500 got their moose, according to Fish and Wildlife Branch figures.

The 1968 season started September 2 and runs until December 21. and up to the end of September more than 2,000 non-resident licences had already been issued.

The rush is still to come, for the best hunting is usually from the start of November, when ground cover is less and tracks may be more easily followed in the snow.

More than 11,000 prospective U.S. hunters have written to the Alberta Government Travel Bureau for information this year, and they are still writing. Others are phoning for information from as far away as California.

With the increase in licence fee from \$25 to \$50, and the requirement that all non-residents hire a local guide, the amount spent by hunters from south of the border this moose season could go as high as \$2 million.

Alberta residents are entitled to shoot two moose this season: one anywhere in the province, the other in Big Game Zone One. •



The University of Alberta's 12-inch reflecting telescope at Devon, near Edmonton, is used for both research and teaching astronomy to students. The telescope has a maximum magnification of 400 and can be used for photography (inset: Saturn). People may see it by applying to the University's Physics Department. The observatory is partly financed by the Alberta Education Department, which provided \$42.5 million this year toward the operating costs of Alberta's universities.

"Within Our Borders" is a publication designed to acquaint the people of the Province with the administration of the Alberta Government.

There are no restrictions in the republishing of any material but a credit line would be appreciated.

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Coming Events

NOVEMBER

1. 3	Alcoholics Anonymous Conference	Edmonton
2	Canada Opera — Overture Concert	Lethbridge
3- 6	ASTA Annual Convention	Calgary
3- 6	Insurance Agents Association of Alberta Convention	Calgary
3- 6	Alberta School Trustees Convention	Calgary
5- 7	4H Club and Junior Forest Warden Convention	Edmonton
6	Alberta Construction Ass'n. Apprenticeship Awards Day at SAIT	Calgary
6	University of Lethbridge Concert	Lethbridge
6- 7	Stampede City Society of Color Photography 12th International Exhibition of Color Slides	Calgary
7	Alberta Federation of Homes & Schools Association Convention	Calgary
10	"Les Jeunes Comediens"	Edmonton
11	Alberta Social Credit League Convention	Calgary
11	"Les Jeunes Comediens"	Father
12	"Les Jeunes Comediens" (evening)	Legal
12	"Les Jeunes Comediens" (morning)	Girouxville
12	Stampede City Society of Color Photography 12th International Exhibition of Color Slides	Red Deer
12-15	Alberta Hospital Association Annual Convention	Edmonton
12-16	United Farmers of Alberta Convention	Calgary
13	"Les Jeunes Comediens"	Bonnyville
13	Alberta Construction Association Apprenticeship Awards Day NAIT	Edmonton
13-15	Alberta Motor Transport Association Convention	Edmonton

14	"Les Jeunes Comediens"	Edmonton
14-16	Motel Association of Alberta Convention	Edmonton
15	"Les Jeunes Comediens"	Calgary
15-16	Annual Convention Alberta Aviation Council	Banff
15-16	Stampede City Society of Color Photography 12th International Exhibition of Color Slides	Edmonton
16	U of A Fall Convocation	Edmonton
19-22	Alberta Association of Municipal Districts Convention	Edmonton
20-30	Theatre Calgary, "The Alchemist"	Calgary
22	St. Michael's Auxiliary "Charity Ball"	Lethbridge
24-27	Canadian Airline Pilots Association Convention	Edmonton
25-26	Annual Bonspiel, Alberta Flying Farmers	Calgary
25-Dec.	6 Alberta Wheat Pool Annual Meeting	Calgary
27-30	Civil Service Association of Alberta Convention	Calgary
28-29	Fall Cattle Sale	Lethbridge
29	Theatre Calgary Mini-Show	Calgary

DECEMBER

2- 7	Car Bonspiel	Edmonton
4	University of Lethbridge Classical Concert	Lethbridge
9-13	Farmers Union of Alberta Convention	Edmonton
11-21	Theatre Calgary, "Caslight"	Calgary
20	Theatre Calgary Mini-Show	Calgary
26-28	Annual Youth Conference on Alcohol & Drug Problems	Banff
26-30	B'Nai B'Rith - Youth	Banff
28-30	Western Association of Anthropologists and Sociologists	Banff